

## Title (en)

Wireless communication system, wireless communication apparatus and wireless communication method

## Title (de)

Drahtloses Kommunikationssystem, drahtlose Kommunikationsvorrichtung und drahtloses Kommunikationsverfahren

## Title (fr)

Système de communication sans fil, appareil de communication sans fil et procédé de communication sans fil

## Publication

**EP 1850507 A3 20100317 (EN)**

## Application

**EP 07251773 A 20070427**

## Priority

- JP 2006124537 A 20060427
- JP 2007056243 A 20070306

## Abstract (en)

[origin: EP1850507A2] A wireless communication system is disclosed. The system performs data transmission from a first terminal including N antennas to a second terminal including M antennas using spatially multiplexed streams (N and M are integers larger than or equal to 2).

## IPC 8 full level

**H04B 7/06** (2006.01); **H04J 99/00** (2009.01)

## CPC (source: CN EP US)

**H04B 7/0408** (2013.01 - US); **H04B 7/0421** (2013.01 - CN EP US); **H04B 7/0456** (2013.01 - US); **H04B 7/046** (2013.01 - US); **H04B 7/0617** (2013.01 - CN EP US); **H04B 7/0634** (2013.01 - CN EP US); **H04B 7/0697** (2013.01 - CN EP US); **H04L 25/0204** (2013.01 - US)

## Citation (search report)

- [E] EP 2011250 A1 20090107 - SONY CORP [JP]
- [E] US 2007258541 A1 20071108 - YAMAURA TOMOYA [JP]
- [E] US 2007253501 A1 20071101 - YAMAURA TOMOYA [JP]
- [X] US 2006068738 A1 20060330 - LI QINGHUA [US], et al
- [A] EP 1598955 A2 20051123 - SAMSUNG ELECTRONICS CO LTD [KR], et al

## Cited by

EP2517372A4; CN101453258A; CN112055942A; KR101125999B1; US11418241B2; WO2011106385A3; WO2009117436A3; WO2019201928A1; US8351521B2; US9100068B2

## Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

## Designated extension state (EPC)

AL BA HR MK RS

## DOCDB simple family (publication)

**EP 1850507 A2 20071031; EP 1850507 A3 20100317; EP 1850507 B1 20161214;** CN 101262264 A 20080910; CN 101262264 B 20120808; CN 102710311 A 20121003; CN 102710311 B 20160309; CN 105656533 A 20160608; CN 105656533 B 20190212; EP 3121972 A1 20170125; EP 3121972 B1 20181212; EP 3493424 A1 20190605; EP 3493424 B1 20201014; JP 2007318727 A 20071206; JP 4356756 B2 20091104; US 10608709 B2 20200331; US 2007286303 A1 20071213; US 2011075606 A1 20110331; US 2013315332 A1 20131128; US 2013315334 A1 20131128; US 2013315335 A1 20131128; US 2013343369 A1 20131226; US 2014219378 A1 20140807; US 2017070269 A1 20170309; US 2018205424 A1 20180719; US 7848444 B2 20101207; US 8699608 B2 20140415; US 8699613 B2 20140415; US 8705650 B2 20140422; US 8705651 B2 20140422; US 8731096 B2 20140520; US 9553638 B2 20170124; US 9948366 B2 20180417

## DOCDB simple family (application)

**EP 07251773 A 20070427;** CN 200710097572 A 20070427; CN 201210206360 A 20070427; CN 201610067245 A 20070427; EP 16188990 A 20070427; EP 18204275 A 20070427; JP 2007056243 A 20070306; US 201313958470 A 20130802; US 201313958491 A 20130802; US 201313958501 A 20130802; US 201313958514 A 20130802; US 201414247411 A 20140408; US 201615357384 A 20161121; US 201815918349 A 20180312; US 79059407 A 20070426; US 92661310 A 20101130